California Department of Fish and Wildlife Biogeographic Information and Observation System (BIOS 6) Conditional Statements:

A conditional statement is comprised of three components: *fields*, *operators*, and *values*. The statement must follow a syntax (format) to be valid. More complex statements can be created by using connectors.

Table of Operators

Operator	Description [Symbol]
Equals	Returns record(s) which equal a value [=]
Not Equal	Returns record(s) which do not equal a value [<>]
Less than	Returns record(s) which are less than a value [<]
Less or Equal	Returns record(s) which are less than or equal to a value [<=]
Greater than	Returns record(s) which are greater than a value [>]
Greater or Equal	Returns record(s) which are greater than or equal to a value [>=]
LIKE	Used to find a record(s) with a portion of text, with a wildcard '%' [LIKE '%%']
IN (List…)	Returns record(s) that match a list of values [IN ()]
Is Null	Returns record(s) with a null value [IS NULL]
Is Not Null	Returns all record(s) except those with a null value [IS NOT NULL]
Is Not Blank	Return(s) all records which are not blank and not null [<> '']

Table of Connectors

Connector	Description
AND	Returns records where *both* statements are true
OR	Returns records where *either* statement is true

Example Data

ComName	Location	Number	Elevation_ft
Snowy egret	Carnegie SVRA		1850
Western toad	Carnegie SVRA	4	1725
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975
Mule deer	Stanislaus NF	6	4250
Barn owl	Stanislaus NF	11	1750

Example Queries and Results

Query [Equals]: ComName = 'Western toad'
Results:

ComName	Location	Number	Elevation_ft
Western toad	Carnegie SVRA	4	1725

Query [Not Equal]: Location <> 'Carnegie SVRA'
Results:

ComName	Location	Number	Elevation_ft
Mule deer	Stanislaus NF	6	4250
Barn owl	Stanislaus NF	11	1750

Query [Less Than]: Elevation_ft < 1750
Results:

ComName	Location	Number	Elevation_ft
Western toad	Carnegie SVRA	4	1725

Query [Less or Equal]: Elevation_ft <= 1750
Results:

ComName	Location	Number	Elevation_ft
Western toad	Carnegie SVRA	4	1725
Barn owl	Stanislaus NF	11	1750

Query [Greater Than]: Number > 6
Results:

ComName	Location	Number	Elevation_ft
Barn owl	Stanislaus NF	11	1750

Query [Greater or Equal]: Number >= 6
Results:

ComName	Location	Number	Elevation_ft
Mule deer	Stanislaus NF	6	4250
Barn owl	Stanislaus NF	11	1750

Query [LIKE]: Location LIKE '%SVRA'
Results:

ComName	Location	Number	Elevation_ft
Snowy egret	Carnegie SVRA		1850
Western toad	Carnegie SVRA	4	1725
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975

Query [In (List…)]: ComName IN ('Mule deer', 'Gophersnake')
Results:

ComName	Location	Number	Elevation_ft
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975
Mule deer	Stanislaus NF	6	4250

Query [Is Null]: Number IS NULL
Results:

ComName	Location	Number	Elevation_ft
Snowy egret	Carnegie SVRA		1850

Query [Is Not Null]: Number IS NOT NULL
Results:

ComName	Location	Number	Elevation_ft
Western toad	Carnegie SVRA	4	1725
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975
Mule deer	Stanislaus NF	6	4250
Barn owl	Stanislaus NF	11	1750

Query [Is Not Blank]: Location <> ''
Results: (all results returned)

ComName	Location	Number	Elevation_ft
Snowy egret	Carnegie SVRA		1850
Western toad	Carnegie SVRA	4	1725
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975
Mule deer	Stanislaus NF	6	4250
Barn owl	Stanislaus NF	11	1750

Query [AND]: Location LIKE '%SVRA' AND Elevation_ft > 1850
Results:

ComName	Location	Number	Elevation_ft
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975

Query [OR]: Location LIKE '%SVRA' OR Elevation_ft > 1800
Results:

ComName	Location	Number	Elevation_ft
Snowy egret	Carnegie SVRA		1850
Western toad	Carnegie SVRA	4	1725
Mule deer	Carnegie SVRA	3	2150
Gophersnake	Carnegie SVRA	1	1975
Mule deer	Stanislaus NF	6	4250

Thank you for using BIOS. Please *email* us with any comments or questions.